Physica C 211 (1993) 489–491
North-Holland

PHYSICA C

Author Index to Volume 211

Asaf, U., I. Felner and U. Yaron, Combinations of anion and cation doping. The $Nd_{2-x}Ce_xCuO_{4-y}F_y$ superconductor **211**, 45
Ausloos, M., see Yu.M. Yarmoshenko **211**, 29

Behner, H., see W. Rauch **211**, 234
Bhattacharya, R.N., P.A. Parilla and R.D. Blaugher, Processing of thick-film electrodeposited thallium oxide superconductors **211**, 475
Blamire, M.G., Deconvolution of tunneling density of states from superconductor–insulator–superconductor current versus voltage data **211**, 467
Blaugher, R.D., see R.N. Bhattacharya **211**, 475
Bodyrev, V.V., see A.P. Nemudry **211**, 375
Bokhonov, B.B., see A.P. Nemudry **211**, 366
Boldyrev, V.V., see A.P. Nemudry **211**, 366
Bonjour, E., see A. Junod **211**, 304
Bozec, X., see D. Delagnes **211**, 355
Bruchlos, G., see J. Taubert **211**, 338
Bruchlos, H., see J. Taubert **211**, 338
Butorin, S., see Yu.M. Yarmoshenko **211**, 29

Calemczuk, R., see A. Junod **211**, 304
Cantoni, M. and H.-U. Nissen, Identification of Gd_2CuO_4 precipitates in sputtered $Gd_1Ba_2Cu_3O_{7-x}$ superconducting thin films **211**, 404
Choisnet, J., see P.A. Van Aken **211**, 421
Cloots, R., see Yu.M. Yarmoshenko **211**, 29
Collin, G., see L. Legrand **211**, 239
Corti, M., ^{87,85}Rb NMR spectra and relaxation in Rb_3C_{60} **211**, 299
Cunsolo, S., P. Dore, S. Lupi, R. Trippetti, C.P. Varsamis and A. Sherman, Infrared conductivity of YBCO from transmission and reflection spectra of thin films **211**, 22

Daalmans, G.M., see W. Rauch **211**, 234
Dahm, T. and L. Tewordt, Charge- and spin-fluctuation-induced pairing interaction in an extended Hubbard model for copper oxide superconductors **211**, 440
Daniel, Ph., A. Maignan, D. Groult, M. Hervieu and B. Raveau, The behavior of lead and gallium in layered cuprates. Evidence for a "123" modulated structure and for new 1212-superconductors **211**, 209
Davis, J.A., see S. Moehlecke **211**, 113
De Jongh, L.J., see S.I. Mukhin **211**, 77
De Jongh, L.J., see D. Reefman **211**, 93
Delagnes, D., N. Pellerin, A.R. Fert, P. Odier, A. Mari, X. Bozec and J.P. Redoules, Critical current density and activation energy in melt textured growth YBaCuO from magnetic measurements **211**, 355
Dore, P., see S. Cunsolo **211**, 22

Eagles, D.M., Specific heats and thermodynamic critical fields in Zn-doped $YBa_2Cu_3O_{7-x}$ according to an induced-pairing model **211**, 319
Elokhina, L.V., see Yu.M. Yarmoshenko **211**, 29

Felner, I., see U. Asaf **211**, 45
Fert, A.R., see D. Delagnes **211**, 355
Fesenko, V., V. Gorbunov, A. Sidorenko and V. Smilga, Magnetic field distribution in the vortex lattice of a type-II superconductor in the Ginzburg–Landau approach and experimental validation of theory by the μSR-method **211**, 343
Forkl, A., H.-U. Habermeier, R. Knorpp, H. Theuss and H. Kronmüller, Direct observation of thermally activated flux motion in high-T_c superconductors **211**, 121
Fueki, K., see Y. Idemoto **211**, 36
Fujimoto, H., T. Taguchi, M. Murakami and N. Koshizuka, The effect of twin boundaries on the flux pinning in MPMG processed YBCO **211**, 393
Funahashi, S., see Y. Koike **211**, 409

Gainutdinov, I.I., see A.P. Nemudry **211**, 375
Ge, Y., see H. Jin **211**, 49
Ghivelder, L., see P. Rodrigues Jr. **211**, 13
Gieres, G., see W. Rauch **211**, 234
Gorbunov, V., see V. Fesenko **211**, 343
Gornik, E., see W. Rauch **211**, 234
Groult, D., see Ph. Daniel **211**, 209

Habermeier, H.-U., see A. Forkl **211**, 121
Hammond, S., see S. Senoussi **211**, 288
Harashina, H., see T. Nishikawa **211**, 127
Hellman, E.S., Comment on the isotope effect in superconducting $Ba_{1-x}K_xBiO_3$ **211**, 486
Henry, J.Y., see A. Junod **211**, 304
Hergt, R., see Th. Klupsch **211**, 65
Hervieu, M., see Ph. Daniel **211**, 209
Hiergeist, R., see Th. Klupsch **211**, 65
Hu, Z., see H. Jin **211**, 49

Idemoto, Y., K. Shizuka, Y. Yasuda and K. Fueki, Standard enthalpies of formation of member oxides in the Bi–Sr–Ca–Cu–O system **211**, 36
Ivanov, S.N., see S.I. Shkuratov **211**, 158

Jansen, M., see P.E. Kazin **211**, 227

Jin, H., Z. Hu, Y. Ge, Q. Liu, C. Liu and C. Shi, The influence of growth conditions on the characteristics of Bi-based whiskers **211**, 49
Junod, A., E. Bonjour, R. Calemczuk, J.Y. Henry, J. Muller, G. Triscone and J.C. Vallier, Specific heat of an $YBa_2Cu_3O_7$ single crystal in fields up to 20 T **211**, 304

Kaiwa, M., see Y. Koike **211**, 409
Kajitani, T., see Y. Koike **211**, 409
Kaldis, E., see H. Schwer **211**, 165
Karpinski, J., see H. Schwer **211**, 165
Kato, M., see Y. Koike **211**, 409
Kazin, P.E., M. Jansen, N. Wagner, Yu.D. Tretyakov, S.R. Lee, V.I. Putlayev and A.M. Tesker, Magnetic characterization of the melt processed $YBa_2Cu_3O_7$ and $Bi_{1.8}Pb_{0.2}Sr_2CaCu_2O_x$ superconductors **211**, 227
Klupsch, Th., R. Hergt and R. Hiergeist, Vortex fragmentation, vortex kinetics, and anisotropy of dissipation in weakly layered superconductors **211**, 65
Knorpp, R., see A. Forkl **211**, 121
Kobayashi, N., see Y. Koike **211**, 409
Koblischka, M.R., Th. Schuster and H. Kronmüller, Influence of additions and radiation damage on the superconducting properties of sintered $YBa_2Cu_3O_{7-\delta}$ **211**, 263
Köhler, Th., see J. Taubert **211**, 338
Koike, Y., M. Kaiwa, T. Kajitani, M. Kato, H. Sunagawa, T. Noji, N. Kobayashi, Y. Morii, S. Funahashi and Y. Saito, Correlation between site preference, superconductivity and magnetism in $Pb_2Sr_2Y_{1-x}Ca_x(Cu_{1-y}M_y)_3O_8$ (M=Fe, Co, Ni, Zn, Ga) **211**, 409
Koshizuka, N., see H. Fujimoto **211**, 393
Kronmüller, H., see A. Forkl **211**, 121
Kronmüller, H., see M.R. Koblischka **211**, 263
Kurmaev, E.Z., see Yu.M. Yarmoshenko **211**, 29

Lee, D.F., see M. Mironova **211**, 188
Lee, S. and D. Youm, Effects of the MgO layer thickness on the crystalline orientation in $Y_1Ba_2Cu_3O_{7-\delta}/CeO_2/MgO/SrTiO_3$ multilayer growth **211**, 205
Lee, S.R., see P.E. Kazin **211**, 227
Legrand, L., I. Rosenman, Ch. Simon and G. Collin, Magnetothermal instabilities in $YBa_2Cu_3O_7$ **211**, 239
Liu, C., see H. Jin **211**, 49
Liu, Q., see H. Jin **211**, 49
Luo, L., see H. Peng **211**, 380
Lupi, S., see S. Cunsolo **211**, 22

Maignan, A., see Ph. Daniel **211**, 209
Manzel, M., see J. Taubert **211**, 338
Mari, A., see D. Delagnes **211**, 355
Matic, V.M., Low-temperature behavior of oxygen ordering in $YBa_2Cu_3O_{6+2c}$: calculation of length of O(1)–Cu(1)–O(1) chains at $T<100$ K **211**, 217
Matsuura, K., see H. Muto **211**, 147
Mironova, M., D.F. Lee and K. Salama, TEM and critical current density studies of melt-textured $YBa_2Cu_3O_x$ with silver and Y_2BaCuO_5 additions **211**, 188
Miura, T., see S. Takeno **211**, 179
Moehlecke, S., C.H. Westphal, M.S. Torikachvili, J.A. Davis and I.C.L. Torriani, Enhancement of the intergranular superconducting properties in $Bi_2Sr_2CaCu_2O_8$ with Li additions **211**, 113
Morii, Y., see Y. Koike **211**, 409
Mosbah, F., see S. Senoussi **211**, 288
Mukhin, S.I. and L.J. De Jongh, A real space pair model for the NMR behavior in high-T_c cuprates **211**, 77
Mukhin, S.I., see D. Reefman **211**, 93
Muller, J., see A. Junod **211**, 304
Müller, W.F., see P.A. Van Aken **211**, 421
Murakami, M., see H. Fujimoto **211**, 393
Muto, H., K. Matsuura, K. Yasuda and I. Nakagawa, Nature and origin of nonresonant microwave response in ESR measurements of $YBa_2Cu_3O_{7-\delta}$ **211**, 147

Nakagawa, I., see H. Muto **211**, 147
Nakamura, S., see S. Takeno **211**, 179
Narumi, E., see A. Shah **211**, 58
Nemudry, A.P., B.B. Bokhonov, S.S. Shatskaya, V.V. Boldyrev, I.G. Vasilyeva and N.F. Zakharchuk, The reaction of $YBa_2Cu_3O_6$ with iodine. Part I. The phase composition of the reaction products **211**, 366
Nemudry, A.P., I.I. Gainutdinov, Yu.T. Pavlyukhin and V.V. Bodyrev, The reaction of $YBa_2Cu_3O_6$ with iodine. Part II. Influence of iodine on the superconducting characteristics of yttrium barium cuprite **211**, 375
Nishikawa, T., H. Harashina and M. Sato, Study on sulfur doping of the $La_{2-y}M_yCuO_4$ (M=Sr and Ba) system **211**, 127
Nissen, H.-U., see M. Cantoni **211**, 404
Noji, T., see Y. Koike **211**, 409

Odier, P., see D. Delagnes **211**, 355

Parilla, P.A., see R.N. Bhattacharya **211**, 475
Patel, S., see A. Shah **211**, 58
Pavlyukhin, Yu.T., see A.P. Nemudry **211**, 375
Pellerin, N., see D. Delagnes **211**, 355
Peng, H. and L. Luo, High-T_c superconductors and interaction between pairs **211**, 380
Pureur, P., see P. Rodrigues Jr. **211**, 13
Putlayev, V.I., see P.E. Kazin **211**, 227

Ramachandra Rao, M.S., see P. Sumana Prabhu **211**, 279
Rauch, W., M. Seitz, G.M. Daalmans, H. Behner, G. Gieres, M. Römheld, R.J. Seeböck, G. Saemann-Ischenko and E. Gornik, A low noise DC SQUID using edge junctions on c-axis oriented $YBa_2Cu_3O_{7-x}$ thin films **211**, 234
Raveau, B., see Ph. Daniel **211**, 209
Rebello, N.S., see G. Xiao **211**, 433
Redoules, J.P., see D. Delagnes **211**, 355
Reefman, D., S.I. Mukhin and L.J. De Jongh, Monte Carlo study of the NMR properties of the quasi-2D Heisenberg antiferromagnet doped with real space pairs **211**, 93
Reich, S., see P. Rodrigues Jr. **211**, 13

Rodrigues Jr. , P., L. Ghivelder, P. Pureur and S. Reich, Resistive transition and fluctuation conductivity in YBaCuO–Ag nonrandom composites **211**, 13
Römheld, M., see W. Rauch **211**, 234
Rosenman, I., see L. Legrand **211**, 239
Rossel, C., see H. Schwer **211**, 165

Saemann-Ischenko, G., see W. Rauch **211**, 234
Saito, Y., see Y. Koike **211**, 409
Salama, K., see M. Mironova **211**, 188
Sarrhini, O., see S. Senoussi **211**, 288
Sato, M., see T. Nishikawa **211**, 127
Sato, R., see S. Takeno **211**, 179
Schuster, Th., see M.R. Koblischka **211**, 263
Schuster, Th., see J. Taubert **211**, 338
Schwer, H., E. Kaldis, J. Karpinski and C. Rossel, Effect of structural changes on the transition temperatures in $Y_2Ba_4Cu_7O_{14+x}$ single crystals **211**, 165
Seeböck, R.J., see W. Rauch **211**, 234
Seitz, M., see W. Rauch **211**, 234
Senoussi, S., F. Mosbah, O. Sarrhini and S. Hammond, The anisotropy of the irreversible magnetizations of YBCO and LaSrCuO. Evidence for a transition from Abrikosov to Josephson vortices in LaSrCuO **211**, 288
Shah, A., S. Patel, E. Narumi and D.T. Shaw, RF plasma deposition and in-situ property enhancement of $Bi_2Sr_2Ca_{n-1}Cu_nO_x$ thin films **211**, 58
Shatskaya, S.S., see A.P. Nemudry **211**, 366
Shaw, D.T., see A. Shah **211**, 58
Sherman, A., see S. Cunsolo **211**, 22
Sherman, A.V., Coupling of holes in the t–J model on an infinite plane **211**, 329
Shi, C., see H. Jin **211**, 49
Shilimanov, S.N., see S.I. Shkuratov **211**, 158
Shizuka, K., see Y. Idemoto **211**, 36
Shkuratov, S.I., S.N. Ivanov and S.N. Shilimanov, Limiting current densities of $YBa_2Cu_3O_{6.9}$ single crystal submicron specimens **211**, 158
Sidorenko, A., see V. Fesenko **211**, 343
Simon, Ch., see L. Legrand **211**, 239
Simonov, A.Yu., Layered high-T_c superconductors in an AC field **211**, 455
Smilga, V., see V. Fesenko **211**, 343
Subba Rao, G.V., see P. Sumana Prabhu **211**, 279
Sumana Prabhu, P., M.S. Ramachandra Rao and G.V. Subba Rao, Structure and superconductivity studies on Fe and Co doped Bi-2212 **211**, 279
Sunagawa, H., see Y. Koike **211**, 409

Taguchi, T., see H. Fujimoto **211**, 393
Takeno, S., S. Nakamura, R. Sato and T. Miura, An electron microscopic study on the incipient crystal growth of Bi–Sr–Ca–Cu–O superconducting thin films on a MgO(001) substrate **211**, 179
Taubert, J., Th. Köhler, M. Manzel, G. Bruchlos, H. Bruchlos and Th. Schuster, Influence of sample inhomogeneities on characterization and application of HTSC material **211**, 338
Tesker, A.M., see P.E. Kazin **211**, 227
Tewordt, L., see S. Wermbter **211**, 132
Tewordt, L., see T. Dahm **211**, 440
Theuss, H., see A. Forkl **211**, 121
Torikachvili, M.S., see S. Moehlecke **211**, 113
Torriani, I.C.L., see S. Moehlecke **211**, 113
Tretyakov, Yu.D., see P.E. Kazin **211**, 227
Trippetti, R., see S. Cunsolo **211**, 22
Triscone, G., see A. Junod **211**, 304
Trofimova, V.A., see Yu.M. Yarmoshenko **211**, 29

Vallier, J.C., see A. Junod **211**, 304
Van Aken, P.A., W.F. Müller and J. Choisnet, Strong reduction of the electron-doped superconductor $Nd_{2-x}Ce_xCuO_{4-\delta}$. Correlation between crystal and electronic structure **211**, 421
Varsamis, C.P., see S. Cunsolo **211**, 22
Vasilyeva, I.G., see A.P. Nemudry **211**, 366

Wagner, N., see P.E. Kazin **211**, 227
Wermbter, S. and L. Tewordt, Self-consistent calculation of physical properties for 2D Hubbard model and comparison with cuprate superconductors **211**, 132
Westphal, C.H., see S. Moehlecke **211**, 113

Xiao, G. and N.S. Rebello, Electrical transport and superconductivity in the $(Y_{0.8}Ca_{0.2})Ba_2Cu_3O_y$ system with variable oxygen content **211**, 433

Yarmoshenko, Yu.M., V.A. Trofimova, L.V. Elokhina, E.Z. Kurmaev, S. Butorin, R. Cloots and M. Ausloos, Sulphur–oxygen substitution in $YBa_2Cu_3O_{6+x}S_y$ analyzed by means of X-ray emission spectroscopy **211**, 29
Yaron, U., see U. Asaf **211**, 45
Yasuda, K., see H. Muto **211**, 147
Yasuda, Y., see Y. Idemoto **211**, 36
Youm, D., see S. Lee **211**, 205
Young, K.H., Morphology and composition of YBaCuO targets after long period laser ablation **211**, 1

Zakharchuk, N.F., see A.P. Nemudry **211**, 366

Physica C 211 (1993) 492–493
North-Holland

PHYSICA C

Analytic Subject Index to Volume 211

AC susceptibility 227
Anisotropic superconductor 288, 455
Antiferromagnetic order 77, 93
Applications of high-T^c superconductors 338

BCS model 380
Bi–Sr–Ca–Cu–O 179
Butterfly effect 65

C_{60} compounds 299
Carrier concentration 45, 127, 433
Conductivity tensor 65
Critical current density 58, 113, 188, 227, 288, 338, 355, 393, 404, 475
Critical state model 239
CSL theory 179
Cu–O chains 165, 217
Cu–O planes 217, 329

Defect structures 165, 188, 263, 338, 404, 421
Density of states 467
Dielectric function 22

Electrical resistivity 13, 113, 132, 279, 433
Electrodeposition 475
Electron diffraction 179
Electron-doped superconductor 421
Electron energy loss spectroscopy 421
Electronic mechanism 329
Electronic properties 158
Electronic structure 132, 421
Emission spectroscopy 158
Energy gap 380, 467
ESR
–of $YBa_2Cu_3O_{7-\delta}$ 147

Faraday effect 121, 263
Fermi surface 132
Fluctuation effects 13, 304
Flux creep 65, 227
Flux lattice 288
Flux penetration 121, 263
Flux pinning 263, 355, 393

Ginzburg–Landau equations 343
Grain alignment 355
Grain boundaries 113, 179
Granular superconductivity 13, 263

Hall effect 127
Halogens 375
High-temperature superconductors 375
HREM 404
Hubbard model 132, 440

Induced-pairing model 319
Infrared spectroscopy 22
Intercalation 366
Irradiation effect 263
Isotope effect
–in $Ba_{1-x}K_xBiO_3$ 486

Josephson junctions 147

Laser ablation 1
Lattice parameters 165

Magnetic measurements 375
Magnetic relaxation 121
Magnetic susceptibility 409
Magnetization 65, 147, 227, 239, 288
Magnetocaloric effects 239
Magnetothermal instabilities 239
Mechanism of reaction 375
Melt process 393
Mixed state 304
Mixed valence 421
Modulated structures 209
Moiré pattern 179
Monte Carlo simulations 93
Multilayers 205, 234
Muon spin rotation 343

Neutron diffraction 409
NMR 77, 93, 299
Nonresonant microwave response 147
Normal-state properties
–of Rb_3C_{60} 299

Optical spectroscopy 455
Oxygen ordering 217

Pairing interaction 380, 440
Phase diagram 217
Phonon mechanism 486

Real-space pairing 77, 93

Single crystal submicron specimens 158
Solution calorimetry 36
Specific heat 319
Specific heat at T^c 304
Specific heat in magnetic fields 304
Spin fluctuations 77, 132, 440
Spin-lattice relaxation time T_1 77
SQUID 234
Standard enthalpy of formation 36
Structure
–of Pb–Sr–Y–Ca–Ga–Cu–O 209
–of $Y_1Ba_2Cu_3O_{7-\delta}/CeO_2/MgO/SrTiO_3$ 205
–of $Y_2Ba_4Cu_7O_{14+x}$ 165
–of $YBa_2Cu_3O_{6+x}S_y$ 29
–of $YBa_2Cu_{3-x}O_yI_z$ 366
Substitution effect
–in $Pb_2Sr_2Y_{1-x}Ca_xCu_3O_8$ 409
Substitution effects
–in Bi-2212 279
–in $Bi_2Sr_2CaCu_2O_8$ 113
–in Bi(Pb)–Sr–Ca–Cu–O 49
–in $La_{2-y}M_yCuO_4$ 127
–in $Nd_{2-x}Ce_xCuO_{4-y}F_y$ 45
–in Pb–Sr–Y–Ca–Ga–Cu–O 209
–in $(Y_{0.8}Ca_{0.2})Ba_2Cu_3O_y$ 433
–in $YBa_2Cu_3O_{6+x}S_y$ 29
–in $YBa_2Cu_3O_{7-x}$ 319
Synthesis
–of $Bi_{1.8}Pb_{0.2}Sr_2CaCu_2OX$ 227
–of $Bi_2Sr_2Ca_{n-1}Cu_nO_x$ 58
–of Bi(Pb)–Sr–Ca–Cu–O 49
–of Bi–Sr–Ca–Cu–O 36
–of $Nd_{2-x}Ce_xCuO_{4-y}F_y$ 45
–of Tl–Ba–Ca–Cu–O 475
–of $YBa_2Cu_3O_7$ 227
–of $YBa_2Cu_{3-x}O_yI_z$ 366
–of YBaCuO 1

TEM 188
Thermodynamic critical fields 319
Thick films 475
Thin films 1, 22, 58, 121, 179, 234, 338, 404
t-J model 329
Transmission electron microscopy 421

Tunneling 455, 467
Twin boundaries 393
Type-II superconductor 343

Vortex lattice 343

Weak links 13, 113
Whiskers 49

XPS 29
X-ray diffraction 49, 165, 205, 209, 279

$YBa_2Cu_3O_x$-Ag composites 188